

CLASSIFICATION:

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BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>February 2004</b>				
APPROPRIATION/BUDGET ACTIVITY <b>OTHER PROCUREMENT, NAVY BA-2: Communication and Electronic Equipment</b>						P-1 ITEM NOMENCLATURE <b>INTEGRATED COMBAT SYSTEMS TEST FACILITY (ICSTF)/DISTRIBUTED ENGINEERING PLANT (DEP) - 296000</b>						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years	ID Code		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Complete	Total
QUANTITY												
COST (In Millions)	<b>\$12.8</b>			<b>\$7.7</b>	<b>\$8.7</b>	<b>\$4.7</b>	<b>\$4.4</b>	<b>\$4.5</b>	<b>\$4.5</b>	<b>\$4.6</b>	<b>Cont.</b>	<b>\$39.1</b>
SPARES COST (In Millions)	<b>\$0.7</b>			<b>\$0.7</b>	<b>\$0.7</b>	<b>\$3.3</b>	<b>\$1.6</b>	<b>\$1.2</b>	<b>\$1.1</b>	<b>\$0.2</b>	<b>Cont.</b>	<b>\$8.8</b>
<b>PROGRAM DESCRIPTION/JUSTIFICATION</b>												
<p>Naval Surface Warfare Center, Port Hueneme Division Detachment, San Diego (NSWC PHD DET SD) is a Navy owned and operated combat system integration test site and is located in San Diego, California at the SPAWAR Systems Center. NSWC PHD DET SD's mission is to perform certification testing of computer programs prior to delivery to the Fleet. CINCLANTFLT/CINCPACFLT Instruction 4720.3A (Fleet Response Plan (FRP)) stated that all platforms must be certified through Combat System Integration Testing (CSIT), which occurs for non-AEGIS platforms at this facility. NSWC PHD DET SD is the only permanent Navy facility responsible for fleet delivery readiness certification of CV/CVN, LHD and LPD-17 ship class combat system computer networks. NSWC PHD DET SD also provides combat system in-service engineering support for Fleet identified problems. NSWC PHD DET SD has been used efficiently to detect combat system computer program problems and enable their correction prior to delivery to the Fleet. This has significantly reduced the cost of corrective action and increased ship operation days. NSWC PHD DET SD is a key member of the Navy's Distributed Engineering Plant (DEP) Alliance, which performs Strike Force Interoperability Testing (SFIT) and Collaborative System Testing (CST) for Strike Groups.</p> <p>As existing COTS combat subsystems are continuously Technically Refreshed and/or Technical Insertion is performed, and/or new COTS subsystems are introduced into the Fleet, NSWC PHD DET SD must develop the test beds that functionally represent these combat systems to support the conduct of CSIT of the lead ship of the class as part of the Fleet Response Plan (FRP). NSWC PHD DET SD must also develop the test beds to support CSIT for new ships/ship classes (CVX class, LPD-21 class, LHD-8 and LHA-R) that are introduced into the Fleet with new combat subsystems.</p> <p>The basic procurement program outlined herein is directed at expanding NSWC PHD DET SD's capability to support CSIT. Procurement requirements are directly tied to the CSIT testing schedule. Procurements are required to build the necessary test beds and for laboratory support equipment. The laboratory support equipment, requires frequent upgrades in order to support the new tactical subsystems that use COTS equipment. FY 2004 funding is available to replace a main component of lab support equipment, the High Speed Digital Switch (HSDS), representing 20+ year old technology, with the Digital Tactical Switching System (DTSS) to ensure NSWC PHD DET SD's ability to provide uninterrupted support of testing requirements.</p> <p>In addition, the basic program provides for equipment/upgrades for the Navy's Distributed Engineering Plant (DEP) needed to conduct Strike Force Interoperability Testing SFIT). The DEP consists of 13 land based sites networked to certify computer programs prior to their delivery to the Fleet. SFIT is required for all deploying Strike Groups per the Joint Fleet instruction.</p> <p>All procurements will be received and installed by NSWC PHD DET SD. Major equipment is procured from Raytheon in San Diego, CA, CCT in Anaheim, CA and DRS Technologies, which is located in Johnstown, PA. Installations are based on CSIT and SFIT schedules.</p>												

P-1 SHOPPING LIST

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<b>BUDGET ITEM JUSTIFICATION SHEET</b>		DATE:
<b>P-40 CONTINUATION</b>		<b>February 2004</b>
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	<b>37288 INTEGRATED COMBAT SYSTEMS</b>
<b>OTHER PROCUREMENT, NAVY/BA-2 Communications and Electronic Equipment</b>	<b>TEST FACILITY(ICSTF)/DISTRIBUTED ENGINEERING PLANTS (DEP) - 296000</b>	
<p>The Shipboard Electronics Systems Evaluation Facilities (SESEF) are Navy-owned and operated test ranges capable of action as the partner in two party operational performance testing of systems currently in the Fleet (i.e., AIMS MK XII IFF (all modes)), TACAN, conventional radars (both search and fire control), communication systems secure voice and LINK 11/4A). The SESEF provides ship Captains and Type Commanders the capability of measuring and testing a ship's condition of material readiness at the completion of construction, industrial availability, during routine ship operations and prior to deployment.</p> <p>Consistent with the CNO's approval for modernization of SESEFs, OPN funds have been provided to procure equipment to upgrade the capabilities for Ft. Story, VA., San Diego, CA., Puget Sound, WA., Pearl Harbor, HI., Yokosuka, Japan, and Mayport, FL. This equipment will provide two party capabilities to test the new and more complex ship board electronic systems (i.e., SLQ-32, AN/SPY-1, etc.) and perform antenna radiation pattern measurements.</p>		

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: February 2004					
APPROPRIATION/BUDGET ACTIVITY Other Procurement, Navy BA-2: COMMUNICATION AND ELECTRONIC EQUIPMENT							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Integrated Combat Systems Test Facility (ICSTF) Distributed Engineering Plants (DEP) - 296000										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS															
			Prior Years				FY 2003			FY 2004			FY 2005					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
M8100	<u>SURFACE SHIPS (N76)</u>	A																
	COMBAT SYSTEM EQUIPMENT										6,230			2,236			3,074	
	CV/CVN Test Bed											615			2,236			1,010
	LPD-17 to 20 Test Bed											2,195			0			0
	LHD Test Bed																839	
	LPD-21 Test Bed																56	
	Legacy Ships Test Bed											100						
	Test Bed Displays											3,320						1,169
	BF Capability Upgrades																	
M8200	SUPPORT EQUIPMENT	A																
	Test Tools (4L42 SEATASK)											537			5,153			46
	DTSS (64X64) Matrix											50			0			46
	Simulation											350			4,333			
	Lab Upgrade											37			775			
	Lab Upgrade										100			45				
M8300	CS Simulation	A																
M8400	SESEF Elect. Equip	A																
M8500	DEP Equipment	A																
M861N	Equipment Installation	A																
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